



UTAH DEPARTMENT of
ENVIRONMENTAL QUALITY
**WATER
QUALITY**

UPDES General Permit For Treated Ground Water

NOI

Notice of Intent (NOI)
for Coverage Under the
UPDES General Permit for Treat Ground Water
UPDES Permit No. UTG790000

Submission of this Notice of Intent constitutes notice that the party identified in Part II. of this form intends to be authorized by UPDES General Permit No. UTG790000, issued for discharges of treated ground water to surface waters in the State of Utah. Coverage of this permit obligates such dischargers to comply with the terms and conditions of the permit.

PLEASE PROVIDE ALL REQUIRED INFORMATION

You must print or type legibly; forms that are not legible, incomplete, or unsigned will be returned. You must maintain a copy of the completed NOI form for your records.

PART I. (NOTE: THIS SECTION FOR DIVISION OF WATER QUALITY USE ONLY. *Skip to Part II.*)

THIS SECTION FOR DIVISION OF WATER QUALITY USE ONLY

Coverage Number: UTG79- _____

COVERAGE DATES: _____ / _____ /20 _____ TO _____ / _____ /20 _____

RECEIVING WATER: _____ CLASSIFICATION: _____

EFFLUENT LIMITATIONS BASED ON PERMIT Part I.D Part I.E

ADDITIONAL MONITORING AND/OR EFFLUENT LIMITATIONS:

DIVISION PERMIT OF COVERAGE ISSUANCE:

DATE: _____ / _____ / 20 _____ SIGNATURE: _____

Once coverage is assigned discharge monitoring reports will be generated and provided to the operator.

PART II. CONTACT INFORMATION (used for permit correspondence)

Organization Name: Marathon Petroleum

Contact Name: Anna Gardiner Title: Project Engineer

Phone Number: 419-379-8760 Email: angardiner@marathonpetroleum.com

Mailing Address: Street (PO Box): 310 W 800 N

City: Salt Lake City State: UT Zip: 84106

Owner/Manager Name: Anna Gardiner

Phone Number: 419-379-8760 Email: angardiner@marathonpetroleum.com

Legal Status of Owner/Operator: Private



UTAH DEPARTMENT of
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UPDES General Permit For
Treated Ground Water**

PART III. PROJECT SITE LOCATION

Project Lead Name: Zach Moritz - IPW LLC Project Lead Phone: 801-828-5852
 Project Site Name: Marathon Warm Spring
 Project Street/Location: 1360 N Warm Springs Rd
 City: Salt Lake City County: Salt Lake State: UTAH Zip: 84116
 Project Site Phone: 4358491513
 Project latitude and longitude location in **degree decimal**.
 Latitude 40.797663 Longitude -111.917497

PART IV. PROJECT DESCRIPTION

Description of cleanup site, including a description of the source(s) of contamination and the extent of contamination and any additional contamination anticipated in the local ground water from other possible sources:

This project will relocate an existing gas line for Marathon Petroleum on the shoulder of Warm Springs Road. The gas line needs to be moved up in elevation so Salt Lake City can install a new sewer main. The project area is no more than 300 feet in length. Groundwater is 3.5 feet deep and the project will excavate to approximately 10 feet in depth.

PART V. MAP

Attach a topographical map of the area extending to at least 1 mile beyond the property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its waste treatment, storage, or disposal facilities, and discharge locations. Include all springs, rivers, and other surface water bodies in the map.

Map Attached

PART VI. PROJECT DATES

Filing your permit will grant you one year of coverage from the filing date regardless of the project duration outlined below. If you project ends early, you must file a Notice of Termination (NOT).

Project Start Date: 06 / 07 /20 22

Project Completion Date: 09 / 01 /20 22

Notes:



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PART VII. DISCHARGE LOCATION(S)

List the Latitude and Longitude of the Discharge Point(s) in **degree decimal** with the Receiving Water.

Outfall No.	Latitude	Longitude	Receiving Surface Waters (Name)
1	40.798799	-111.918117	unnamed canal to Jordan River

Are any of the discharge points located in the Colorado River Basin? Yes No

Does the receiving water designated uses include Class 1C drinking water as defined by R317-2-13? Yes No

Class 1C waters are "Protected for domestic purposes with prior treatment by treatment processes as required by the Utah Division of Drinking Water".

Is the project located on tribal lands? Yes No

If the facility is located on Tribal Lands the permittee must contact EPA Region VIII except for facilities on the Navajo Reservation or the Goshute Reservation, for which the permittee must contact EPA Region IX.

Does the discharge flow into a storm drain before entering the receiving water body? Yes No

Be Advised: Discharges to storm drains must be approved by the storm drain authority/owner.

Description of Discharge location and conveyance system to live water:

Discharge to an unnamed canal on warm springs road adjacent to the project area. Parts of the canal are dry this time of year and other parts of the canal have flowing water. The canal drains into the Jordan River.

PART VIII. INFLUENT AND EFFLUENT CONCENTRATIONS

Complete attached **Table A** and list any additional pollutants (not included in Table A) with influent and/or effluent concentrations here:

Arsenic 0.0057 mg/L

Mercury 0.0002 mg/L

Barium 0.06 mg/L

Selenium 0.0007 mg/L

Chromium 0.002 mg/L



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PART VIII. INFLUENT AND EFFLUENT CONCENTRATIONS *continued*

Discharge **IS** to Class 1C Water:

1. In addition to completing Table A, influent sampling including total toxic organics (TTO results must be attached. See attached Table B for list of TTO constituents. No permits for discharge to Class 1C Waters will be issued prior to influent sampling being conducted and results received.
2. An analysis of alternative disposal methods of the treated ground water must be attached. This analysis must include an economic comparison of the alternative disposal methods. If no other disposal methods are feasible the analysis must demonstrated the consideration of other methods such as trucking and/or discharge to a treatment facility.
3. If the project will last longer than one year DWQ may require Level II Antidegradation review be conducted. Please contact DWQ Staff for further information.

Discharge is **NOT** to Class 1C Water:

1. In addition to completing Table A, influent sampling including total toxic organics **OR** a report documenting why influent sampling is not needed for this project and an estimation of anticipated influent constituents concentrations.
2. In accordance with *Part I.E.* the permittee may petition Total Petroleum Hydrocarbon (TPH-GRO and TPH-DRO) analyses may be substituted for the TTO analyses. If approved Maximum Daily Effluent Limitations of 1.0 mg/LTPH-GRO and TPH-DRO will be substituted for the TTO effluent limitation.

PART IX. DESCRIPTION OF TREATMENT SYSTEM

Description of the current or proposed treatment system, including discharge flow rate (attach a flow diagram):

Project will pump water into an 18,000 gallon weir tank to filter for turbidity prior to discharge.

The project does not plan to treat for contamination of metals or TTOs because the results show low level contamination.

FLOW DIAGRAM ATTACHED

PART X. CERTIFICATION AND SIGNATURE

I certify under penalty of law that this submission was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those person(s) directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitted false information, including the possibility of fine and imprisonment for knowing violations. I further certify that the applicant has sufficient title, right or interest in the property where the proposed activity occurs.

Anna Gardiner

DocuSigned by:

Anna Gardiner

610AA95D1B8743A...

Project Engineer

Marathon Petroleum

6/8/2022

**PRINT Signatory
Authority**

Signature

Title

Date



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PART XI. ADDITIONAL APPLICATIONS AND APPROVALS

1. You may need to file for a temporary application to appropriate water rights from the Division of Water Rights. Call 801.583.7240 for more information.
2. You may need to obtain approval from the Division of Air Quality if any air stripping equipment is to be employed at the cleanup site. Call 801.536.4000 for more information.

The Division of Water Quality may request addition information.

Important:

The UPDES Permit Application, must be signed as follows: (Refer to *Part IV.G. Signatory Requirements*, of the General Permit.)

- 1) For a corporation, a responsible corporate officer shall sign the NOT, a responsible corporate officer means:
 - a. A President, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
 - b. The manager of one or more manufacturing, production, or operating facilities, if
 - i. The manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;
 - ii. The manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and
 - iii. Authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- 2) For a partnership of sole proprietorship, the general partner or the proprietor, respectively; or
- 3) For a municipality, state or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of any agency means;
 - a. The chief executive officer of the agency; or
 - b. A senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

Where to File the UPDES Permit Application form:

Please submit the original form with signature via the DWQ Electronic Documents Submission Portal:

<https://deq.utah.gov/water-quality/water-quality-electronic-submissions>

You can also send by mail or hand deliver to the below address. Remember to retain a copy for your records.

**Division of Water Quality
Department of Environmental Quality
195 North 1950 West
PO Box 144870
Salt Lake City, UT 84114-4870**



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TABLE A

Analysis of Treatment System Influent and Effluent

You must report concentrations for each pollutant listed. Please refer to Part I.D. and Part I.E. of the permit or NOI to determine if actual influent values are required or if estimated values will be accepted.

Are influent values: **Estimated** Or **Actual**
Are effluent values: **Estimated** Or **Actual**

Parameters	Influent			Effluent		
	Avg (mg/L)	Max (mg/L)	Number of Samples	Avg (mg/L)	Max (mg/L)	Number of Samples
pH (range in standard units)	7.2	7.2	1	7	9	2/monthly
Total Suspended Solids	77	77	1	15	25	monthly
Total Dissolved Solids	1570	1570	1	1200	2000	monthly
Total Lead	0.0040	0.0040	1	0.0040	0.38	monthly
Oil & Grease	ND	ND	1	ND	10	monthly
Benzene	ND	ND	1	ND	0.005	2/monthly
Toluene	ND	ND	1	ND	0.1	2/monthly
Ethylbenzene	ND	ND	1	ND	0.1	2/monthly
Xylenes	ND	ND	1	ND	0.1	2/monthly
Naphthalene	ND	ND	1	ND	0.7	monthly
MTBE	ND	ND	1	ND	0.2	2/monthly
TTO's * (attach full list if required)	Attached	Attached	1	Attached	2.0	monthly

* The permittee must analyze for all the priority toxic organics (See Table A) likely to be present in concentrations greater than 0.01 mg/L. Attach the complete TTO analysis indicating parameters sampled and their reported concentrations.

Bromomethane is the only TTO that was detected. Sample results show 0.6 ug/L. Bromomethane will be sampled monthly during the project.



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TABLE B
Total Toxic Organic List

(These are the parameters that shall be analyzed for initially determining the total toxic organic (TTO) concentration of the wastewater)

Acrolein	Phenol	Hexachlorocyclopentadiene
Acrylonitrile	2,4,6-Trichlorophenol	Hexachloroethane
Benzene	Acenaphthene	Indeno(1,2,3-Cd)Pyrene
Bromoform	Acenaphthylene	Isophorone
Carbon Tetrachloride	Anthracene	Napthalene
Chlorobenzene	Benzidine	Nitrobenzene
Chlorodibromomethane	Benzo(A)Anthracene	N-Nitrosodimethylamine
Chloroethane	Benzo(A)Pyrene	N-Nitrosodi-N-Propylamine
2-Chloroethylvinyl Ether	3,4-Benzofluoranthene	N-Nitrosodiphenylamine
Chloroform	Benzo(Ghi)Perylene	Phenanthrene
Dichlorobromomethane	Benzo(K)Fluoranthene	Pyrene
1,1-Dichloroethane	Bis(2-Chloroethoxy)Methane	1,2,4-Trichlorobenzene
1,2-Dichloroethane	Bis(2-Chloroethyl)Ether	Aldrin
1,1-Dichloroethylene	Bis(2-Chloroisopropyl)Ether	Alpha-Bhc
1,2-Dichloropropane	Bis (2-Ethylhexyl)Phthalate	Beta-Bhc
1,3-Dichloropropylene	4-Bromophenyl Phenyl Ether	Gamma-Bhc
Ethylbenzene	Butylbenzyl Phthalate	Delta-Bhc
Methyl Bromide	2-Chloronaphthalene	Chlordane
Methyl Chloride	Ether	4,4'-Ddt
Methylene Chloride	4-Chlorophenyl Phenyl	4,4'-Dde
1,1,2,2-Tetrachloroethane	Chrysene	4,4'-Ddd
Tetrachloroethylene	Dibenzo(A,H)Anthracene	Dieldrin
Toluene	1,2-Dichlorobenzene	Alpha-Endosulfan
1,2-Cis,Trans- Dichloroethylene	1,3-Dichlorobenzene	Beta-Endosulfan
1,1,1-Trichloroethane	1,4-Dichlorobenzene	Endosulfan Sulfate
1,1,2-Trichloroethane	3,3'-Dichlorobenzidine	Endrin
Trichloroethylene	Diethyl Phthalate	Endrin Aldehyde
Vinyl Chloride	Dimethyl Phthalate	Heptachlor
2-Chlorophenol	Di-N-Butyl Phthalate	Heptachlor Epoxide
2,4-Dichlorophenol	2,4-Dinitrotoluene	Pcb-1242
2,4-Dimethylphenol	2,6-Dinitrotoluene	Pcb-1254
4,6-Dinitro-O-Cresol	Di-N-Octyl Phthalate	Pcb-1221
2,4-Dinitrophenol	1,2-Diphenylhydrazine (As Azobenzene)	Pcb-1232
2-Nitrophenol	Fluoranthene	Pcb-1248
4-Nitrophenol	Fluorene	Pcb-1260
P-Chloro-M-Cresol	Hexachlorobenzene	Pcb-1016
Pentachlorophenol	Hexachlorobutadiene	Toxaphene



6/2/2022

Work Order: 22E2432
Project: Warm Springs

Silver Leaf SWPPP
Attn: Taylor Currier
390 West Main Street
American Fork, UT 84003

Client Service Contact: 801.262.7299

The analyses presented on this report were performed in accordance with the National Environmental Laboratory Accreditation Program (NELAP) unless noted in the comments, flags, or case narrative. If the report is to be used for regulatory compliance, it should be presented in its entirety, and not be altered.



Approved By:

Patrick Noteboom, Project Manager



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Sandy, UT 84070
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Certificate of Analysis

Silver Leaf SWPPP
Taylor Currier
390 West Main Street
American Fork, UT 84003

PO#:
Receipt: **5/31/22 12:20 @ 12.2 °C**
Date Reported: 6/2/2022
Project Name: **Warm Springs**

Sample ID: **Warm Springs**

Matrix: **Water**

Lab ID: **22E2432-01**

Date Sampled: **5/31/22 11:27**

Sampled By: **Taylor Currier**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Inorganic							
Oil & Grease (HEM)	ND	mg/L	5	EPA 1664A	5/31/22	6/1/22	
pH	7.2	pH Units	0.1	SM 4500 H-B	6/1/22 6:45	6/1/22 7:18	SPH
Total Dissolved Solids (TDS)	1570	mg/L	20	SM 2540 C	5/31/22	5/31/22	
Total Suspended Solids (TSS)	77	mg/L	7	SM 2540 D	5/31/22	5/31/22	
Metals							
Arsenic, Total	0.0057	mg/L	0.0005	EPA 6020A	6/2/22	6/2/22	
Barium, Total	0.06	mg/L	0.0005	EPA 6020A	6/2/22	6/2/22	
Cadmium, Total	ND	mg/L	0.0005	EPA 6020A	6/2/22	6/2/22	
Chromium, Total	0.002	mg/L	0.0005	EPA 6020A	6/2/22	6/2/22	
Lead, Total	0.0040	mg/L	0.0005	EPA 6020A	6/2/22	6/2/22	
Mercury, Total	0.0002	mg/L	0.0002	EPA 7470A	5/31/22	6/1/22	
Selenium, Total	0.0007	mg/L	0.0005	EPA 6020A	6/2/22	6/2/22	
Silver, Total	ND	mg/L	0.0005	EPA 6020A	6/2/22	6/2/22	
Gasoline Range							
Gasoline Range Organics	ND	mg/L	0.01	EPA 8260/624	5/31/22	5/31/22	
Diesel Range							
Diesel Range Organics	ND	mg/L	1.0	EPA 8015C/3510B	5/31/22	5/31/22	
Volatile Organic Compounds							
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,1,1-Trichloroethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,1,2-Trichloroethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,1-Dichloroethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,1-Dichloroethene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,1-Dichloropropene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
2-Hexanone	ND	ug/L	20.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,2-Dichlorobenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,2-Dichloroethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,2-Dichloropropane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	

Project Name: **Warm Springs**

CtF WO#: **22E2432**



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Certificate of Analysis

Silver Leaf SWPPP
Taylor Currier
390 West Main Street
American Fork, UT 84003

PO#:
Receipt: **5/31/22 12:20 @ 12.2 °C**
Date Reported: 6/2/2022
Project Name: **Warm Springs**

Sample ID: **Warm Springs (cont.)**Matrix: **Water**Lab ID: **22E2432-01**Date Sampled: **5/31/22 11:27**Sampled By: **Taylor Currier**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Volatile Organic Compounds (cont.)							
1,3-Dichlorobenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,3-Dichloropropane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
1,4-Dichlorobenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
2,2-Dichloropropane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	J-LOW
2-Chlorotoluene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
2-Nitropropane	ND	ug/L	10.0	EPA 8260D /5030A	5/31/22	5/31/22	
4-Chlorotoluene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Acetone	ND	ug/L	10.0	EPA 8260D /5030A	5/31/22	5/31/22	
Acrylonitrile	ND	ug/L	10.0	EPA 8260D /5030A	5/31/22	5/31/22	
Benzene	ND	ug/L	0.4	EPA 8260D /5030A	5/31/22	5/31/22	
Bromobenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Bromochloromethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Bromodichloromethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Bromoform	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Bromomethane	0.6	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	J-LOW, J
Carbon Disulfide	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Carbon Tetrachloride	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Chlorobenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Chloroethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Chloroform	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Chloromethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
cis-1,2-Dichloroethene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
cis-1,3-Dichloropropene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Cyclohexanone	ND	ug/L	20.0	EPA 8260D /5030A	5/31/22	5/31/22	
Dibromochloromethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Dibromomethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Dichlorodifluoromethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Ethyl Acetate	ND	ug/L	10.0	EPA 8260D /5030A	5/31/22	5/31/22	
Ethylbenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Ethyl Ether	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Hexachlorobutadiene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Isobutanol	ND	ug/L	10.0	EPA 8260D /5030A	5/31/22	5/31/22	
Isopropylbenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Methyl Ethyl Ketone	ND	ug/L	10.0	EPA 8260D /5030A	5/31/22	5/31/22	
Methyl Isobutyl Ketone	ND	ug/L	10.0	EPA 8260D /5030A	5/31/22	5/31/22	
Methylene Chloride	ND	ug/L	2.0	EPA 8260D /5030A	5/31/22	5/31/22	
Methyl-tert-butyl ether (MTBE)	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	

Project Name: **Warm Springs**CtF WO#: **22E2432**



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Receipt: **5/31/22 12:20 @ 12.2 °C**
Date Reported: 6/2/2022
Project Name: **Warm Springs**

Sample ID: **Warm Springs (cont.)**

Matrix: **Water**

Lab ID: **22E2432-01**

Date Sampled: **5/31/22 11:27**

Sampled By: **Taylor Currier**

	<u>Result</u>	<u>Units</u>	<u>Minimum Reporting Limit</u>	<u>Method</u>	<u>Preparation Date/Time</u>	<u>Analysis Date/Time</u>	<u>Flag(s)</u>
Volatile Organic Compounds (cont.)							
Naphthalene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
n-Butyl Alcohol	ND	ug/L	40.0	EPA 8260D /5030A	5/31/22	5/31/22	
n-Butylbenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Nitrobenzene	ND	ug/L	20.0	EPA 8260D /5030A	5/31/22	5/31/22	
n-Propyl Benzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
p-Isopropyltoluene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
sec-Butyl Benzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Styrene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
tert-Butylbenzene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Tetrachloroethene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Toluene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
trans-1,2-Dichloroethene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
trans-1,3-Dichloropropene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Trichloroethene	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Trichlorofluoromethane	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Vinyl Chloride	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	
Xylenes, total	ND	ug/L	1.0	EPA 8260D /5030A	5/31/22	5/31/22	



Chemtech-Ford Laboratories

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Sandy, UT 84070
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www.ChemtechFord.com



Certificate of Analysis

Silver Leaf SWPPP
Taylor Currier
390 West Main Street
American Fork, UT 84003

PO#:
Receipt: **5/31/22 12:20 @ 12.2 °C**
Date Reported: 6/2/2022
Project Name: **Warm Springs**

Report Footnotes

Abbreviations

ND = Not detected at the corresponding Minimum Reporting Limit (MRL).

1 mg/L = one milligram per liter or 1 mg/kg = one milligram per kilogram = 1 part per million.

1 ug/L = one microgram per liter or 1 ug/kg = one microgram per kilogram = 1 part per billion.

1 ng/L = one nanogram per liter or 1 ng/kg = one nanogram per kilogram = 1 part per trillion.

Flag Descriptions

J = Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

J-LOW = Estimated low due to low recovery of LCS or CCV

SPH = Sample submitted past method specified holding time.

CHAIN OF CUSTODY - SAMPLE SUBMITTAL FORM

22E2432

COMPANY: Silver Leaf SWPPP
 ADDRESS: 390 W main
 CITY/STATE/ZIP: AF, UT
 PHONE #: 830-832-4452
 CONTACT: Taylor Currier
 EMAIL: tcurrier@silverleafswpp.com
 PROJECT: Warm Springs
 PO Number: _____
 INVOICE EMAIL ADDRESS: _____

RUSH Due Date*:
due 6/2

QC Level
 1 2 3 4

QC levels definition: QC1: none QC2: Batch QC, random sample
 QC3: 25% surcharge. Narrative plus Batch QC, your sample selected
 QC4: 40% surcharge. Add raw data



Sample condition				Delivery Method	
<input checked="" type="checkbox"/> Custody Seal	<input checked="" type="checkbox"/> Correct Containers			UPS	USPS
<input checked="" type="checkbox"/> Container Intact	<input checked="" type="checkbox"/> Sufficient Sample Volume			FedEx	Chemtech-Ford Courier
<input checked="" type="checkbox"/> COC/Labels Agree	Headspace Present (VOC)	<input checked="" type="checkbox"/> Walk-in			Customer Courier
<input checked="" type="checkbox"/> Received on Ice	Temperature Blank				
	<input checked="" type="checkbox"/> Received within Holding Time				

Lab Use Only	CLIENT SAMPLE INFORMATION			
22E2432	LOCATION / IDENTIFICATION	DATE	TIME	MATRIX
01	1. Warm Springs	5/31/22	11:27	
	2.			
	3.			
	4.			
	5.			
	6.			
	7.			
	8.			
	9.			
	10.			

TESTS REQUESTED												
X	X	X	X	X	X	X	X	X	X			
Oil & Grease	PH	TSS	TDS	Total PCBs metab	BTEXN, TPH-GRD	TPH-DRO	Total VOCs				E. Coli/Coliform (Absent/Present)	E. Coli/Coliform (Enumerated)
												HPC

due 6/2
RUSH
 S-8194, ULINE, 800-295-5510

Bottle type 0 Lot # 1198

Sampled by: [print] Taylor Currier Sampled by: [signature] T Currier

Special Instructions: _____

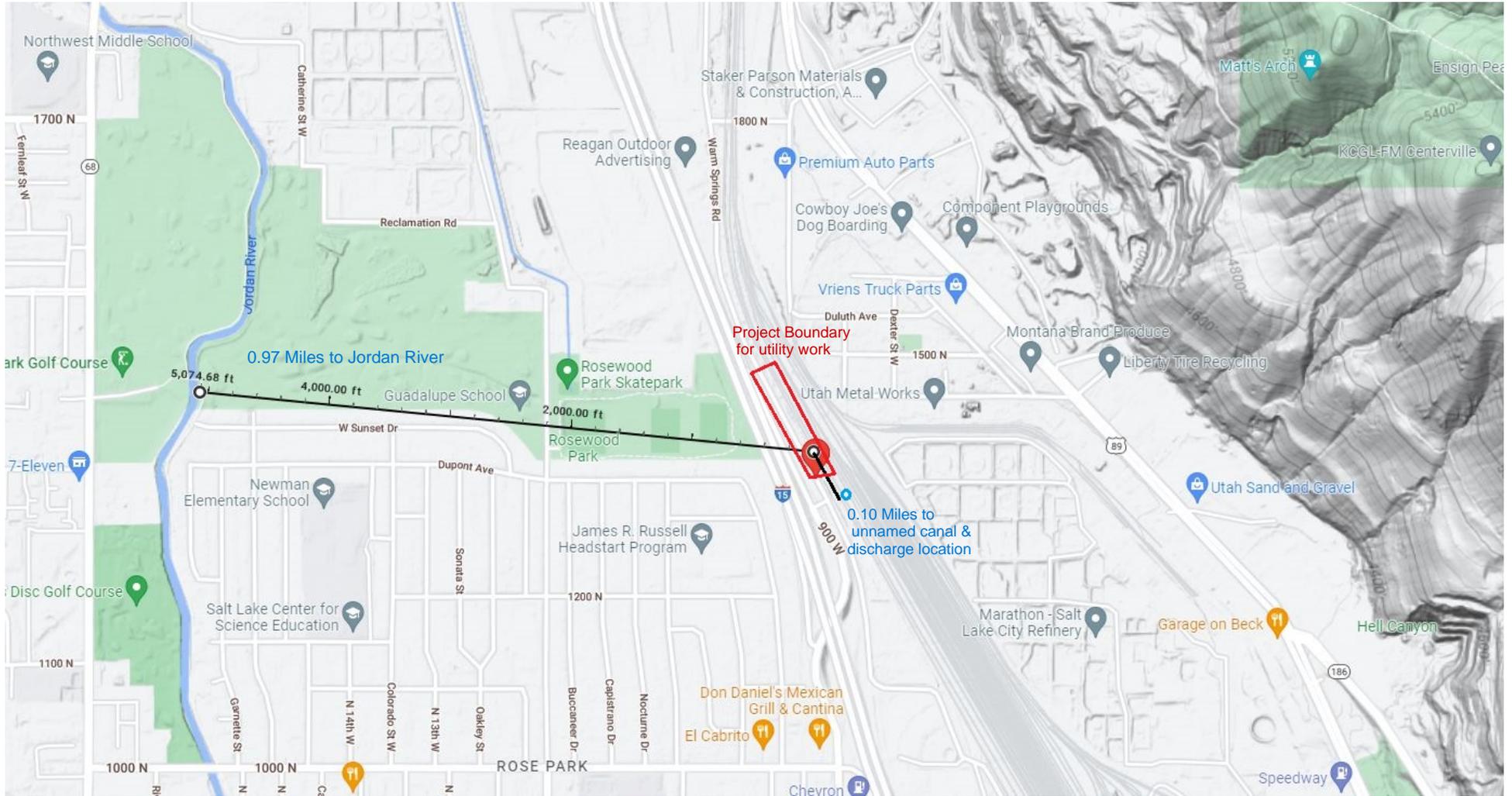
Relinquished by: [signature] Taylor Currier Date/Time 5/31/22 12:20

Received by: [signature] [Signature] Date/Time 5/31/22 12:20

ON ICE NOT ON ICE Temp (C°): 12.2

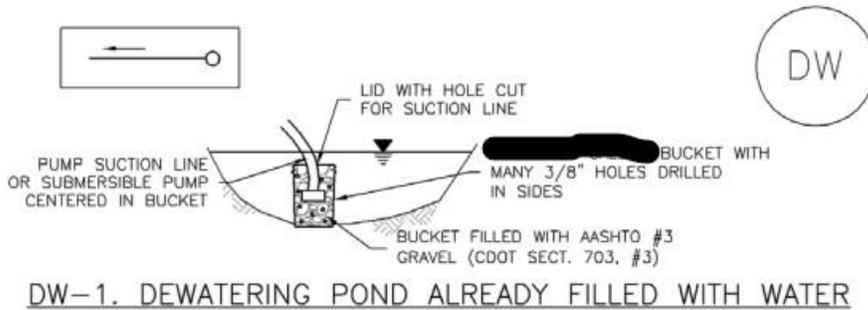
Samples received outside the EPA recommended temperature range of 0-6 C° may be rejected.

Payment Terms are net 30 days OAC. 1.5% interest charge per month (18% per annum). Client agrees to pay collection costs and attorney's fees.

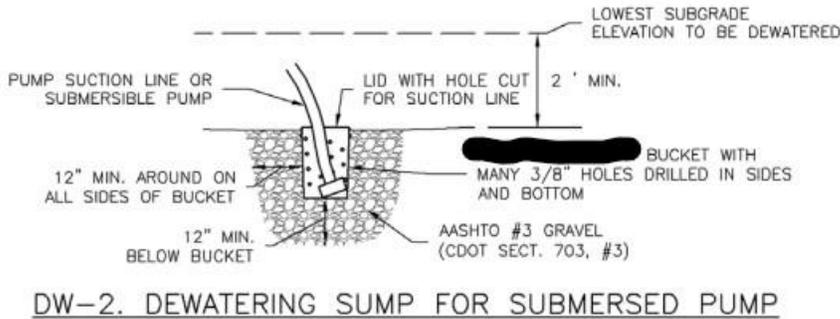


Part V: Topographic Map extending at least 1 mile from project area

Flow diagram for Dewatering System



Water will be pumped from well points. Well points will have gravel around them as a form of filtration and to prevent the equipment from clogging.



TSURUMI PUMP NK - SERIES SEMI-VORTEX - DEWATERING PUMPS DIMENSIONS NK3-22L

C.W.L. : Continuous running Water Level

Model		HP	NOM. SIZE	Pump & Motor						C.W.L.	*Wt.
				A	A1	B	B1	D	H	W1	(lbs.)
NK3-22L		3	3"	9 1/4	7 1/2	23 5/8	20 3/8	8 1/2	26 1/2	4 3/4	73

* Excluding Cable

Model		kW	NOM. SIZE	Pump & Motor						C.W.L.	*Wt.
				A	A1	B	B1	D	H	W1	(kg)
NK3-22L		2.2	80	235	192	601	519	216	669	120	33.0

A typical submersible pump used for dewatering.

Steel Tank Flat Top Smooth Wall

Overview:
 Store liquids with confidence with Rain for Rent's Flat Top Smooth Wall tank. Permanently attached axles, for maximum maneuverability, allows this tank to be moved with ease on the jobsite. The staircase ensures proper protection for workers on site. The tank also offers optional epoxy coating, which offers chemical resistance and additional cleanliness for sensitive environmental applications.

Features:

- Vapor Tight Tanks: rated to 150z/in² of pressure and 0.4oz/in² of vacuum
- V-drain floor with front and rear 4" 150-lb flanges with valves
- OSHA Compliant Stairway
- 1.5" SCH80 level gauge port
- 8" External manifold or internal manifold
- Rear 3" or 6" SCH40 fill line
- Optional: Epoxy Coating - chemical resistance for a wide variety of chemical compatibility and keeps stored product within the tank cleaner
- Optional: Steam Coils

Accessories:

- E-CONTAIN[®] Spillguards
- SolidGround[®] Traction Mats
- Radar Level Gauge
- Mechanical Level Gauge
- PipeStax[®]
- HoseTrax[®]
- Suction and Discharge Hose

Specs:

Material	Steel, Epoxy Coated (Option)
Capacity	21,000 gallons
Manways	Four 22" hatches
Dry weight	29,500 lbs.
Footprint (LxWxH):	560" x 102" x 120"

PUMPS • TANKS • FILTRATION • PIPE • SPILLGUARDS

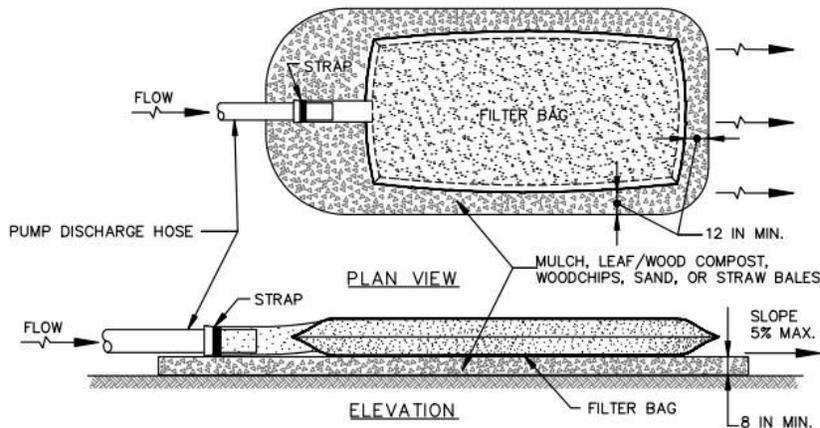
Rain for Rent is a registered trademark of Western District Supply Company. Products and specifications are subject to change without notice.

Liquid Ingenuity.
 800-742-7246
 rainforrent.com

The weir tank is the primary filtration system. The baffled weir tank causes sediment to settle prior to discharge to a storm drain.

DETAIL F-4 FILTER BAG

☒FB



The sediment bag can be used at the end of the system as an additional form of filtration. This is not always necessary if the water from the weir tank meets the permit effluent requirements.

PART VIII: ANALYSIS OF ALTERNATIVE DISPOSAL METHODS

- 1.) Marathon Petroleum proposes disposing of water with a traditional dewatering system. The water will be treated for TSS and monitored for pollutants required under the Treated Groundwater Permit. Our sampling shows the contamination levels are below the effluent limitations in permit UTG790000. We believe that no further treatment will be required to meet the requirements of the permit. This method of treatment will have an initial cost of \$15,000 for permitting and mobilization. The monthly cost to pump and treat the water will be approximately \$20,000. A 2 month project has a projected budget of \$55,000.
- 2.) The second alternative for disposal would be to treat the water for contamination discovered during sampling. The project would be required to install a media filter to clean the contamination from the water prior to discharge. This would likely require a bag filtration system to treat for heavy metals. Installation of this alternative would add approximately \$50,000 per month to the project. The 2 month project budget would be \$125,000.
- 3.) The third alternative would be to haul the water away from the site. This is not a feasible alternative due to the cost. The minimum disposal cost for 5,000 gallons of water is \$2,500 at AET Environmental. This does not include the cost of drivers and time onsite. The minimum cost would be \$60,000 per day. The 1 month project budget would be \$3.36 million. Disposal at a treatment facility is not a viable alternative.